## ABSTRACT OF THE DISCLOSURE

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provide a stem type package with good high frequency characteristics for high-speed transmission of 10Gbps or more, the package includes a stem which has an under surface, an upper surface and one or more through holes penetrating from the upper surface to the under optical with an mount to be mounted surface, а semiconductor device on the upper surface, a lead terminal for signal supply penetrating one of the through holes with an insulator between them, the upper surface having an earth conductor adjacent to the lead terminal for signal the upper surface so supply projected from difference between the characteristic impedance of transmission line constituted with the through hole, the insulator and the lead terminal for signal supply and the line transmission the impedance οf characteristic terminal for signal supply lead constituted with а projected from the upper surface becomes small.